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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vriginia 22313-1450 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

05514

7590

07/23/2003

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 EXAMINER

NGUYEN, LAMSON D

ART UNIT

CLASS-SUBCLASS

2861

347-040000

DATE MAILED: 07/23/2003

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/742,431	12/22/2000	Mineo Kaneko	684.3120	8878

TITLE OF INVENTION: LIQUID EJECTING RECORDING HEAD AND LIQUID EJECTING RECORDING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	10/23/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
  - ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE
Commissioner for Patents
Alexandria, Virginia 22313-1450

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

	with any corrections or use Block T)

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7590

07/23/2003

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Signatura	(Depositor's nam		
(Dat	(Signatur		
1545	(Dat		

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09/742,431	12/22/2000	Mineo Kaneko	684.3120	8878

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nonprovisional	NO	\$1300	\$300	\$1600	10/23/2003
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
NGUYEN, LAMSON D . 2861		347-040000			
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  □ Change of correspondence address (or Change of Correspondence			2. For printing on the patent from the names of up to 3 registered or agents OR, alternatively, (2)	patent attorneys ) the name of a	
Address form PTO/SB/122) attached.		single firm (having as a mem attorney or agent) and the nat			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		registered patent attorneys or ag is listed, no name will be printed	ents. If no name		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (v	vill not be printed on the patent) 🔲 individual 🔘 corporation or other private group entity 🔘 go	vernmen
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):	
☐ Issue Fee	☐ A check in the amount of the fee(s) is enclosed.	
☐ Publication Fee	☐ Payment by credit card. Form PTO-2038 is attached.	
☐ Advance Order - # of Copies	☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpay Deposit Account Number(enclose an extra copy of this form).	ment, to
Commissioner for Patents is requested to apply the Issue Fee a	nd Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.	ve.
(Authorized Signature)	(Date)	
NOTE; The Issue Fee and Publication Fee (if required) we other than the applicant; a registered attorney or agent; o interest as shown by the records of the United States Patent a	the assignee or other party in	
This collection of information is required by 37 CFR 1.311 obtain or retain a benefit by the public which is to file (an application. Confidentiality is governed by 35 U.S.C. 122 an estimated to take 12 minutes to complete, including gatherir completed application form to the USPTO. Time will vary case. Any comments on the amount of time you require suggestions for reducing this burden, should be sent to the Patent and Trademark Office, U.S. Department of Co 22313-1450. DO NOT SEND FEES OR COMPLETED	137 CFR 1.14. This collection is use, preparing, and submitting the depending upon the individual to complete this form and/or Chief Information Officer, U.S. symmerce. Alexandria. Virginia	

collection of information unless it displays a valid OMB control number.



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. BOX 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

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09/742,431	12/22/2000	Mineo Kaneko	684.3120	8878
05514	7590 07/23/2003		EXAMINER	
FITZPATRICE 30 ROCKEFELE	K CELLA HARPER & S	SCINTO	NGUYEN, LA	MSON D
NEW YORK, N			ART UNIT	PAPER NUMBER
			2861	
			DATE MAILED: 07/23/2003	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



## United States Patent and Trademark Office

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05514	7590 07/23/2003		EXAMIN	ER
FITZPATRICK	CELLA HARPER &	SCINTO	NGUYEN, LA	MSON D
NEW YORK, NY			ART UNIT	PAPER NUMBER
UNITED STATE	ES		2861	
		r	ATE MAILED: 07/22/2002	

# Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	487
Nation of Allowability	09/742,431	KANEKO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Lamson D Nguyen	2861	
	Lamson b Hgdyen	2001	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commur GHTS. This application is su	this application. If not include nication will be mailed in due o	d course. <b>THIS</b>
1. This communication is responsive to <u>RCE and pre-amendation</u>	ment dated 01 July 2003.		
2. The allowed claim(s) is/are <u>1-23</u> .			
3. The drawings filed on <u>22 December 2000</u> are accepted by			
<ol> <li>Acknowledgment is made of a claim for foreign priority und</li> <li>a)    ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>	ler 35 U.S.C. § 119(a)-(d) or (	<b>(f)</b> .	
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.		
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Application	No	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received	in this national stage applicati	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority ur			
<ul><li>(a)  The translation of the foreign language provisional a</li><li>6. Acknowledgment is made of a claim for domestic priority ur</li></ul>	* *		
o.   Acknowledgment is made of a claim for domestic priority di	idel 35 0.5.C. 99 120 and/or	121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the complymid in the complexity of the c			
7. A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which gives reas			OTICE OF
<ol> <li>CORRECTED DRAWINGS must be submitted.</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> <li>1) ☐ hereto or 2) ☐ to Paper No</li> </ol>	son's Patent Drawing Review	( PTO-948) attached	
(b) including changes required by the proposed drawing of	correction filed, which	has been approved by the Ex	kaminer.
(c) including changes required by the attached Examiner	s Amendment / Comment or	in the Office action of Paper N	lo
Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper			
9. DEPOSIT OF and/or INFORMATION about the deposattached Examiner's comment regarding REQUIREMENT FOR T			ote the
Attachment(s)			
<ul> <li>1 Notice of References Cited (PTO-892)</li> <li>3 Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5 Information Disclosure Statements (PTO-1449), Paper No</li> <li>7 Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4∏ Interview 6∭ Examiner	Informal Patent Application (P Summary (PTO-413), Paper N s Amendment/Comment s Statement of Reasons for A	No

Application/Control Number: 09/742,431

Art Unit: 2861

## REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

\* the primary reason for the allowance of claims 1-23 is the inclusion of the limitation of an ink jet printhead comprising a first nozzle array group and a second nozzle array group, wherein the first group comprising a first array ejecting a first liquid and a second array ejecting a second liquid and the second group comprising a third array ejecting the first liquid and a fourth array ejecting the second liquid, and wherein the first array and the second array are aligned in the scanning direction and the third array and the fourth array are aligned in the scanning direction and the first and the third array are adjacent to each other and the the nozzles of the first array and the nozzles of the third array are disposed with a deviation in the subscanning direction so as to be complementary to each other in the scanning direction. It is this limitation found in each of the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamson D. Nguyen whose telephone number is (703)306-4547.

PRIMARY ENAMER

Y EXAMINER